Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-19-99 **Date: 13-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-99 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-19-99**
		Date: 09-10-18
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-99 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-19-99** **Date: 13-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-99 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5644	5889	39.3	60.7	30-70
4	10 mm	4568	10457	69.7	30.3	10-35
5	4.75 mm	4286	14743	98.3	1.7	0-5
6	Pan	257	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-19-99** **Date: 12-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-09-18
Sample ID No	:	2018-12-19-99 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	256	256	5.1	94.9	90-100
3	10 mm	2456	2712	54.2	45.8	25-55
4	4.75 mm	1889	4601	92.0	8.0	0-10
5	Pan	399	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Date: 12-09-18

ID	:	CP-2018-12-19-99
stomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
dress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
ject Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
ency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
stomer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
rce of Sample	:	Sample supplied by Agency
mple Condition	:	Satisfactory
te of Receipt	:	10-09-18
mple ID No	:	2018-12-19-99 /03
mple Type	:	Fine Aggregate
ference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
te of test	:	10-09-18
tal weight taken	:	1000 grams

.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	156	242	24.2	75.8	60-95	75-100	85-100	95-100
4	1.18 mm	166	408	40.8	59.2	30-70	55-90	75-100	90-100
5	600 micron	178	586	58.6	41.4	15-34	35-59	60-79	80-100
6	300 micron	185	771	77.1	22.9	5-20	8-30	12-40	15-50
7	150 micron	156	927	92.7	7.3	0-10	0-10	0-10	0-15
8	Pan	73	1000	100.0	0.0	---	---	---	---

esult :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-19-99** **Date: 14-09-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-09-18
Sample ID No	:	2018-12-19-99 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	13-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	528	676	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-19-99**

Date: 22-09-18

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore

Project Name : Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04

Agency : Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.

Customer's Reference : EE/(YNK.D)E-PMT-21/W.O/46/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-09-18

Sample ID No : 2018-12-19-99 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 18/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.54	100.48	1.116	4481	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.51	1.118	4478	81.5	18.2	16.9	21.2

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID	:	**CP-2018-12-19-99**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 22-09-18**
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-18
Sample ID No	:	2018-12-19-99 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	18/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	1.116	31570	80.9	2.6	2.4	3.0
2	Cover Slab-2	200.49	250.52	1.122	31564	82.3	2.6	2.4	3.0
3	Cover Slab-3	200.50	250.51	1.118	31567	81.5	2.6	2.4	3.0

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2018-12-19-99
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-09-18
Sample ID No	:	2018-12-19-99 /07
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	13-09-18

Date: 17-09-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	32.520	1972.8	2003.9	Not less than 1800Kg/m^3
2	401	200	201	16120	32.360	2007.4		
3	402	201	202	16322	33.16	2031.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.350	32.460	5.82	5.67	Shall not be more than 10% by mass
2	34.480	32.610	5.73		
3	34.420	32.640	5.45		

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/10/2018

Lab ID	:	CP-2018-12-19-99
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-10-18
Sample ID No	:	2018-12-19-99 /01
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.44 X 150.56 X 150.43	22650	8.312	278.6	12.3	12.4
2	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.44 X 150.51 X 150.36	22643	8.331	285.3	12.6	
3	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.38 X 150.56 X 150,42	22641	8.345	276.2	12.2	

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Quality Manager

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 06/10/2018

Lab ID	:	CP-2018-12-19-99
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-10-18
Sample ID No	:	2018-12-19-99 /01
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.56 X 150.38 X 150.47	22641	8.312	283.0	12.5	12.5
2	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.47 X 150.55 X 150.42	22653	8.331	290.0	12.8	
3	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.56 X 150.45 X 150.38	22652	8.345	276.4	12.2	

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 06/10/2018

Lab ID	:	CP-2018-12-19-99
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-10-18
Sample ID No	:	2018-12-19-99 /01
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.53 X 150.58 X 150.37	22667	8.312	285.6	12.6	12.3
2	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.44 X 150.52 X 150.49	22644	8.331	274.0	12.1	
3	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.52 X 150.44 X 150.33	22644	8.345	278.5	12.3	

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GEO TECHNICAL PROJECT

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	CP-2018-12-19-99
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-10-18
Sample ID No	:	2018-12-19-99 /01
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/10/2018

Date: 06/10/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.58 X 150.45 X 150.36	22655	8.312	287.7	12.7	12.8
2	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.54 X 150.43 X 150.38	22646	8.331	289.9	12.8	
3	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.52 X 150.44 X 150.37	22644	8.345	292.1	12.9	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/10/2018

Lab ID	:	CP-2018-12-19-99
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.
Customer's Reference	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-10-18
Sample ID No	:	2018-12-19-99 /01
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.46 X 150.52 X 150.41	22647	8.312	287.6	12.7	12.4
2	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.51 X 150.45 X 150.36	22644	8.331	276.3	12.2	
3	Drain Side Wall Concrete	M20	29/09/2018	06/10/2018	150.47 X 150.53 X 150.33	22650	8.345	278.6	12.3	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-12-19-99**
		Date: 10-10-18
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka
Customer Reference	:	EE/(YNK.D)E-PMT-21/WO/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-19-99
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	08-10-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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Certificate No.: TC- 5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-12-19-99** **Date: 29-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka
Customer Reference	:	EE/(YNK.D)E-PMT-21/WO/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-12-19-99/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	25-10-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-12-19-99** **Date: 05-10-18**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka
Customer Reference	:	EE/(YNK.D)E-PMT-21/WO/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-12-19-99/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	03-10-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	896	9790	97.90	2.10	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-12-19-99** **Date: 22-10-18**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka
Customer Reference	:	EE/(YNK.D)E-PMT-21/WO/46/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-12-19-99/01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	18-10-18

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-12-19-99** **Date: 22-10-18**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka
Customer Reference	:	EE/(YNK.D)E-PMT-21/WO/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-18
Sample ID No	:	2018-12-19-99/01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	18-10-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2018-12-19-99
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore. **Date: 27-10-18**
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka
Customer Reference	:	EE/(YNK.D)E-PMT-21/WO/46/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-12-19-99/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	25-10-18
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

Note:-
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Samples will be disposed after 90 days from the date of issue of test certificate

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ಜ.ಪಾ.ಯೋ.ಕ. ಬೆಂಗಳೂರು-106

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Authorized Signatory
Quality Manager

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2018-12-19-99 **Date: 29-10-18**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka
Customer Reference	:	EE/(YNK.D)E-PMT-21/WO/46/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-18
Sample ID No	:	2018-12-19-99/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	25-10-18

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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Lab ID : CP-RW-2018-12-19-99 **Date: 02-01-00**

Sample ID : 2018-12-19-99/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 477

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.3	62.7	53-71
2.36	88	266	55.8	44.2	42-58
1.18	29	295	61.8	38.2	34-48
0.6	11	306	64.2	35.8	26-38
0.3	46	352	73.8	26.2	18-28
0.15	45	397	83.2	16.8	12-20
0.075	55	452	94.8	5.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.4	62.6	53-71
2.36	88	266	55.9	44.1	42-58
1.18	29	295	62.0	38.0	34-48
0.6	11	306	64.3	35.7	26-38
0.3	46	352	73.9	26.1	18-28
0.15	45	397	83.4	16.6	12-20
0.075	55	452	95.0	5.0	4-10

Note:-

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2018-12-19-99**	**Date: 10-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Intimation of Work Order to Start the Work of Providing Asphalting to 11th A Cross in Ward No 04	
Agency	:	Sri.S.Somashekar, No:15/44/01, Allalasandra G.K.V.K. Post, Yelahanka Bangalore.	
Work Order Ref	:	EE/(YNK.D)E-PMT-21/W.O/46/2018-19	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-11-18	
Sample ID No	:	2018-12-19-99/01	
Type of Mix	:	Tack coat	
Date of test	:	09-11-18	

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x 30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.749	0.749
4	Final weight of plate after application of tack Coat (c)	Kg	0.772	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.256 Kg/sq.m	

Note:-
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